

# EFL803/EFL1003

## Electric Counterbalanced Forklift

### 8-10T (96V)



| Manufacturer                     |       |       | EP          | EP          | EP          |
|----------------------------------|-------|-------|-------------|-------------|-------------|
| Model designation                |       |       | EFL803-6    | EFL803-9    | EFL1003-6   |
| Drive                            |       |       | Electric    | Electric    | Electric    |
| Load capacity                    | Q     | kg    | 8000        | 8000        | 10000       |
| Load center distance             | c     | mm    | 600         | 900         | 600         |
| Service weight                   |       | kg    | 12325       | 13900       | 13900       |
| Height, mast extended            | h4    | mm    | 4310        | 4310        | 4310        |
| Length to face of forks          | l2    | mm    | 3955        | 3965        | 3960        |
| Overall width                    | b1/b2 | mm    | 2200        | 2200        | 2200        |
| Fork dimensions                  | s/e/l | mm    | 75×160×1520 | 85×160×1820 | 80×160×1520 |
| Turning radius                   | Wa    | mm    | 3605        | 3605        | 3605        |
| Travel speed, laden/unladen      |       | km/ h | 13/15       | 13/15       | 13/15       |
| Lifting speed, laden/unladen     |       | m/s   | 0.32/0.40   | 0.32/0.40   | 0.32/0.40   |
| Lowering speed, laden/unladen    |       | m/s   | 0.46/0.4    | 0.46/0.4    | 0.46/0.4    |
| Max. gradeability, laden/unladen |       | %     | 13/16       | 13/16       | 13/16       |
| Drive motor rating S2 60 min     |       | kW    | 35          | 35          | 35          |
| Battery voltage/nominal capacity |       | V/Ah  | 96V/920AH   | 96V/920AH   | 96V/920AH   |

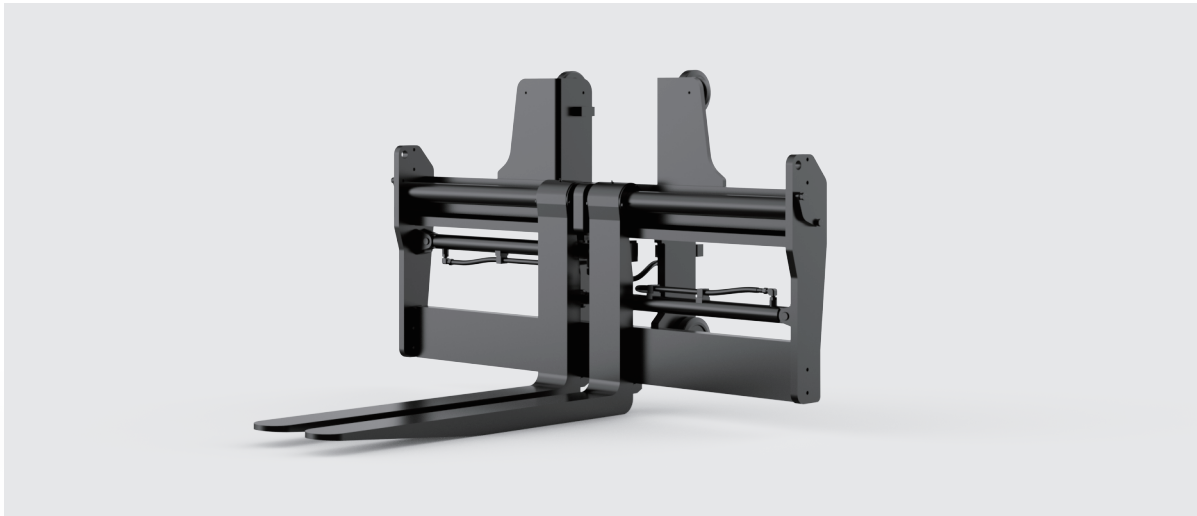
# Standard Configuration

- Fork positioner with pin type forks
- Fork length 1520 (600mm LC) / 1820mm (900mm LC)
- 2130mm fork carriage
- 96V920Ah Li-ion battery
- Battery heating function when charging
- Telematics
- Mechanical levers
- Suspension seat with OPS
- Pneumatic tyres (solid tyres for certain markets)
- Standard overhead guard
- Mast lifting and lowering buffer
- Fire extinguisher holder
- Reversing buzzer
- Back handle with horn button
- Lighting package: LED front working light (with steering light, width light), LED tricolor taillights, LED rear working light, Strobe warning light

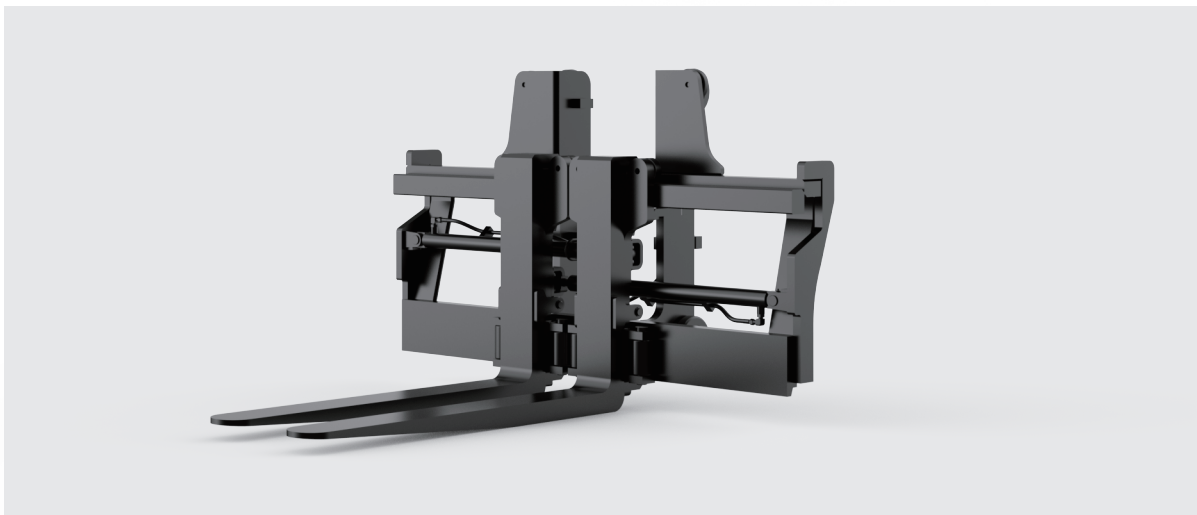
# Options

- Different fork length customization
- Customized fork carriage (width and type)
- Attachments:
  - Fork positioner with sideshift: Forks with terminal west
  - Fork positioner with sideshift: Roller guiden forks
- Customized fork backrest
- Charger:
  - 3-phase 96V150A external charger (AC320V-500V, 50-60HZ, 32A plug)
  - 3-phase 96V150A external charger (AC320V-500V, 50-60HZ, 32A plug) x2
  - 3-phase 96V200A external charger (AC320V-500V, 50-60HZ, 63A plug)
  - 3-phase 96V200A external charger (AC320V-500V, 50-60HZ, 63A plug)x2
- Fingertips
- Grammer MSG65 seat with OPS
- Solid tyres / non marking tyres
- Reverse voice horn (English)
- Back distance sensor
- Rear camera with LCD display
- Lights
  - 4 LED front working lights on mast
  - Rotating warning light / rotating buzzer warning light
  - Back blue spot
  - Front blue spot
  - Front fog light
- Cigarette lighter interface 12V5A
- USB interface 24V
- Deceleration at turns
- Overspeed alarm
- Cabin options:
  - Basic half-cabin: front windshield, front wiper (including sprinkler), roof
  - Upgrade half-cabin:basic half-cabin, rear windshield, rear wiper
  - Basic full cabin:upgrade half-cabin, left and right doors
  - Upgrade full cabin: basic full cabin, air conditioner, defogging device

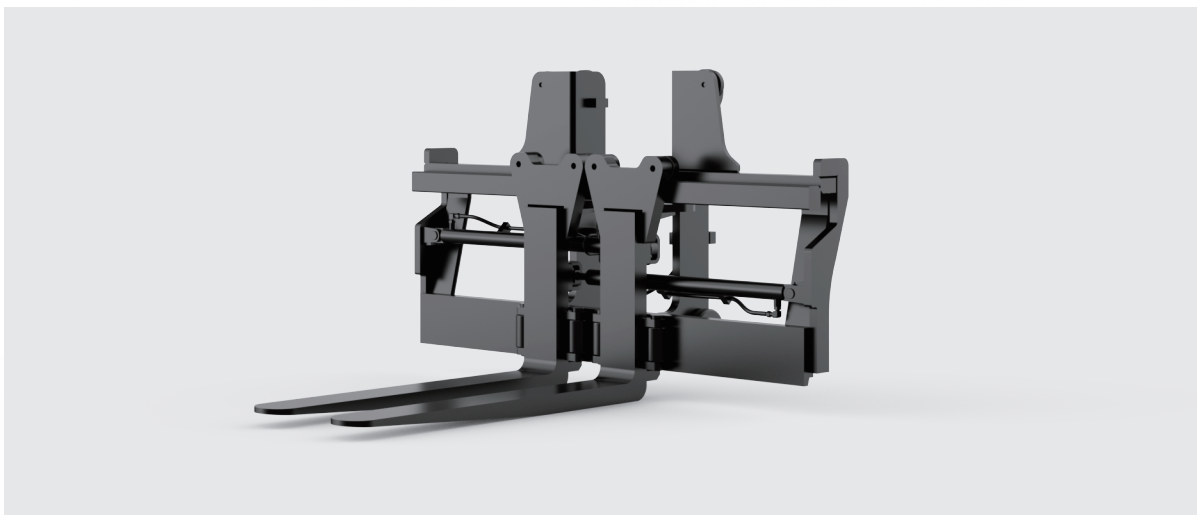
01 fork positioner with pin type forks



02 fork positioner with sideshift: forks with terminal west



03 fork positioner with sideshift: roller guiden forks

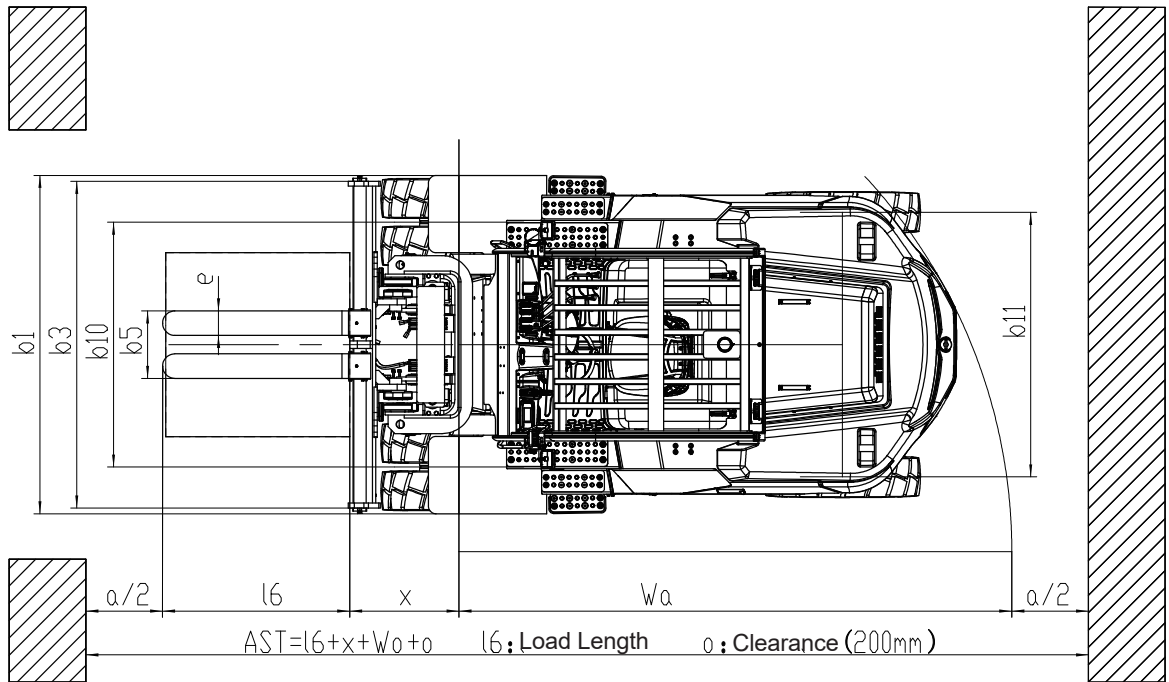
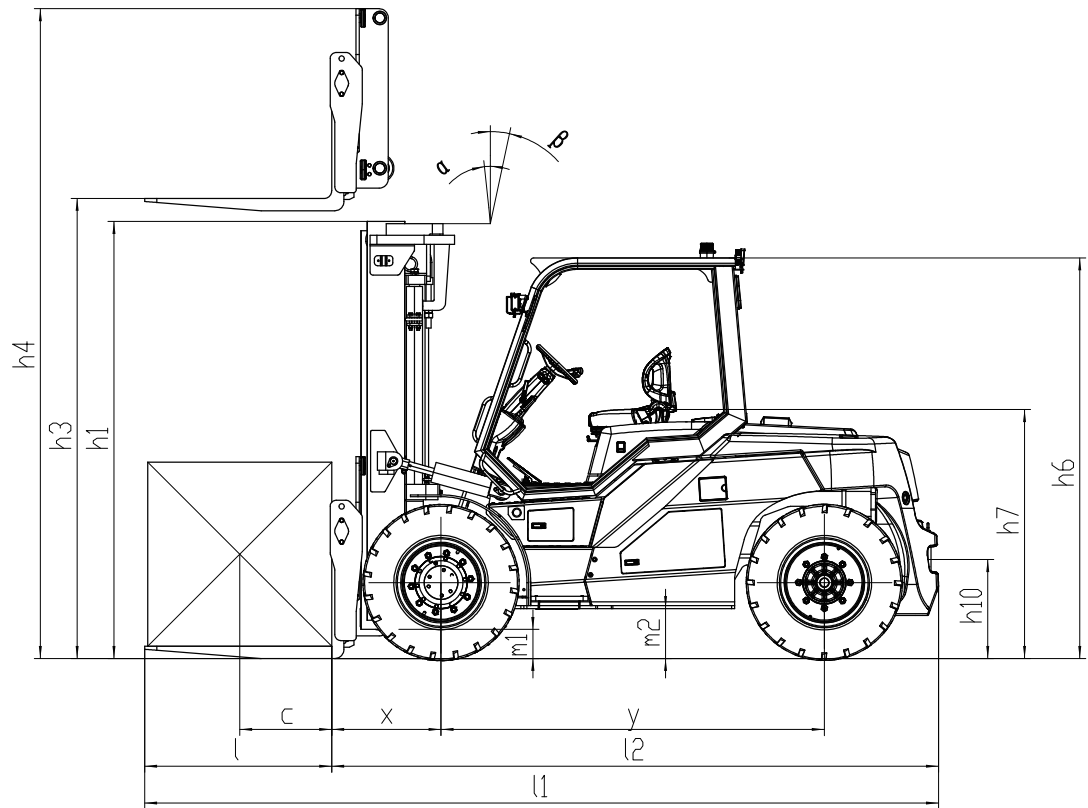


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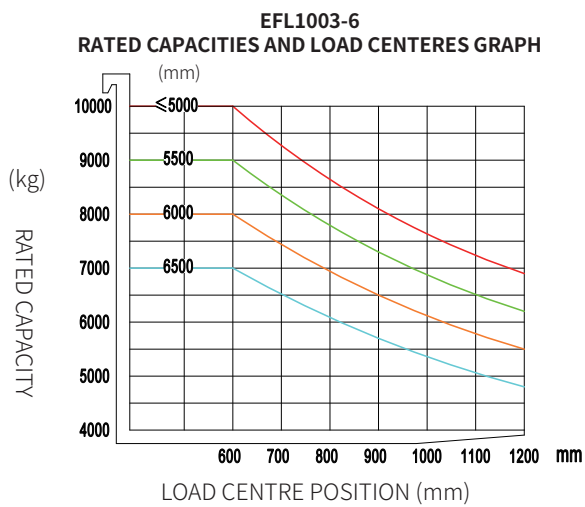
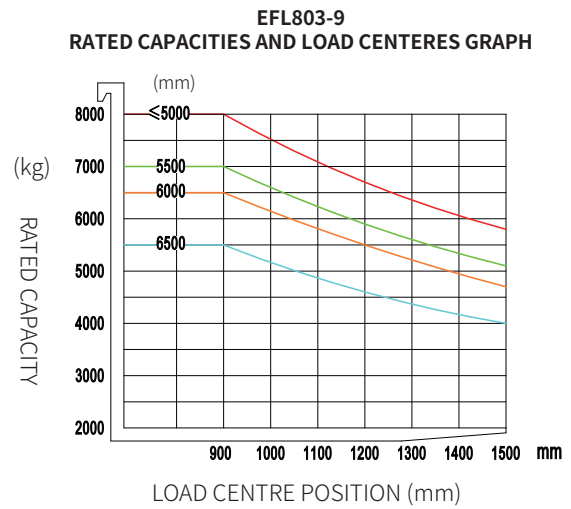
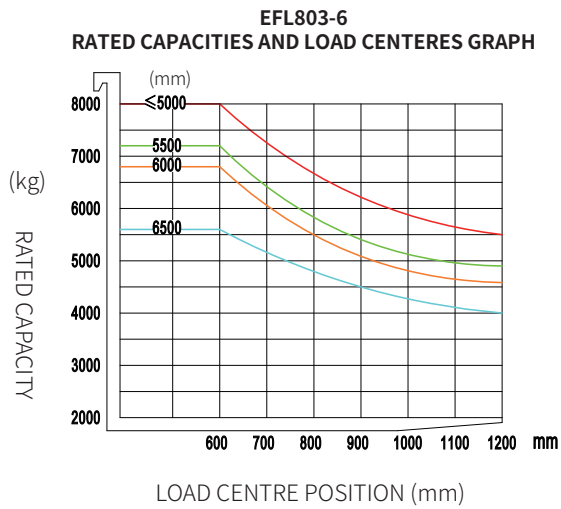
## EFL803/EFL1003

| Distinguishing mark | 1.1    | Manufacturer                                |                |       | EP           | EP           | EP           |
|---------------------|--------|---------------------------------------------|----------------|-------|--------------|--------------|--------------|
|                     | 1.2    | Model designation                           |                |       | EFL803-6     | EFL803-9     | EFL1003-6    |
|                     | 1.3    | Drive                                       |                |       | Electric     | Electric     | Electric     |
|                     | 1.4    | Operator type                               |                |       | Seated       | Seated       | Seated       |
|                     | 1.5    | Load capacity                               | Q              | kg    | 8000         | 8000         | 10000        |
|                     | 1.6    | Load center distance                        | c              | mm    | 600          | 900          | 600          |
|                     | 1.8    | Load distance, centre of drive axle to fork | x              | mm    | 708          | 718          | 713          |
|                     | 1.9    | Wheelbase                                   | y              | mm    | 2500         | 2500         | 2500         |
| Service weight      | 2.1    | Service weight                              |                | kg    | 12325        | 13900        | 13900        |
|                     | 2.2    | Axle loading, laden front/rear              |                | kg    | 18290/2035   | 19250/2650   | 21340/2560   |
|                     | 2.3    | Axle loading, unladen front/rear            |                | kg    | 6105/6220    | 6090/7810    | 6090/7810    |
| Tyres/chassis       | 3.1    | Tyre type                                   |                |       | pneumatic    | pneumatic    | pneumatic    |
|                     | 3.2    | Tyre size, front                            |                |       | 9.00-20-14PR | 9.00-20-14PR | 9.00-20-14PR |
|                     | 3.3    | Tyre size, rear                             |                |       | 9.00-20-14PR | 9.00-20-14PR | 9.00-20-14PR |
|                     | 3.5    | Wheels, number front/rear (x=drive wheels)  |                | mm    | 4x/ 2        | 4x/ 2        | 4x/ 2        |
|                     | 3.6    | Tread width, front                          | b10            | mm    | 1600         | 1600         | 1600         |
|                     | 3.7    | Tread width, rear                           | b11            | mm    | 1700         | 1700         | 1700         |
| Dimensions          | 4.1    | Tilt of mast/fork carriage forward/backward | $\alpha/\beta$ | °     | 6/12         | 6/12         | 6/12         |
|                     | 4.2    | Retracted mast height                       | h1             | mm    | 2850         | 2850         | 2850         |
|                     | 4.3    | Free lift                                   | h2             | mm    | 200          | 200          | 200          |
|                     | 4.4    | Lift height                                 | h3             | mm    | 3000         | 3000         | 3000         |
|                     | 4.5    | Height, mast extended                       | h4             | mm    | 4310         | 4310         | 4310         |
|                     | 4.7    | Height of overhead guard (cabin)            | h6             | mm    | 2680         | 2680         | 2680         |
|                     | 4.8    | Seat height/standing height                 | h7             | mm    | 1550         | 1550         | 1550         |
|                     | 4.12   | Tow coupling height                         | h10            | mm    | 630          | 630          | 630          |
|                     | 4.19   | Overall length                              | l1             | mm    | 5475         | 5785         | 5480         |
|                     | 4.20   | Length to face of forks                     | l2             | mm    | 3955         | 3965         | 3960         |
|                     | 4.21   | Overall width                               | b1/b2          | mm    | 2200         | 2200         | 2200         |
|                     | 4.22   | Fork dimensions                             | s/e/l          | mm    | 75×160×1520  | 85×160×1820  | 80×160×1520  |
|                     | 4.23   | A,B Fork carriage class/type A, B           |                |       | /            | /            | /            |
|                     | 4.24   | Fork carriage width                         | b3             | mm    | 2130         | 2130         | 2130         |
|                     | 4.31   | Ground clearance, laden, below mast         | m1             | mm    | 250          | 250          | 250          |
|                     | 4.32   | Ground clearance, center of wheelbase       | m2             | mm    | 345          | 345          | 345          |
|                     | 4.34.1 | Aisle width for pallets 1000×1200 crossways | Ast            | mm    | 6033         | 6343         | 6038         |
|                     | 4.34.2 | Aisle width for pallets 800×1200 lengthways | Ast            | mm    | 6033         | 6343         | 6038         |
|                     | 4.35   | Turning radius                              | Wa             | mm    | 3605         | 3605         | 3605         |
| Performance data    | 5.1    | Travel speed, laden/unladen                 |                | km/ h | 13/15        | 13/15        | 13/15        |
|                     | 5.2    | Lifting speed, laden/unladen                |                | m/s   | 0.32/0.40    | 0.32/0.40    | 0.32/0.40    |
|                     | 5.3    | Lowering speed, laden/unladen               |                | m/s   | 0.46/0.4     | 0.46/0.4     | 0.46/0.4     |
|                     | 5.5    | Drawbar pull, laden/unladen                 |                | N     | /            | /            | /            |
|                     | 5.6    | Max. drawbar pull, laden/unladen            |                | N     | /            | /            | /            |
|                     | 5.8    | Max. gradeability, laden/unladen            |                | %     | 13/16        | 13/16        | 13/16        |
|                     | 5.10   | Service brake                               |                |       | Hydraulic    | Hydraulic    | Hydraulic    |
| Electric-engine     | 5.11   | Parking brake                               |                |       | Mechanical   | Mechanical   | Mechanical   |
|                     | 6.1    | Drive motor rating S2 60 min                |                | kW    | 35           | 35           | 35           |
|                     | 6.2    | Lift motor rating at S3 15%                 |                | kW    | 2x30         | 2x30         | 2x30         |
|                     | 6.4    | Battery voltage/nominal capacity            |                | V/Ah  | 96V/920AH    | 96V/920AH    | 96V/920AH    |
| Addition data       | 6.5    | Battery weight                              |                | kg    | 860          | 860          | 860          |
|                     | 8.1    | Type of drive control                       |                |       | PMSM         | PMSM         | PMSM         |
|                     | 10.5   | Steering design                             |                |       | Hydraulic    | Hydraulic    | Hydraulic    |
|                     | 10.7   | Sound pressure level at the driver's ear    |                | dB(A) | /            | /            | /            |

If there are improvements of technical parameters or configurations, no further notice will be given.  
The diagram shown may contain non-standard configurations.







## Mast Option

| Mast types      | Lift height<br>( h3 ) | Height, Mast                |                              | Height,<br>Free lift<br>(h2) | Tilt           |                 | Load distance(X)                                    |     |     | Weight,Mast |      |      |
|-----------------|-----------------------|-----------------------------|------------------------------|------------------------------|----------------|-----------------|-----------------------------------------------------|-----|-----|-------------|------|------|
|                 |                       | Height, mast<br>lowered(h1) | Height, mast<br>extended(h4) |                              | Forward<br>(α) | Backward<br>(β) | Fork Positioner with sideshift , double solid tyres |     |     |             |      |      |
|                 |                       |                             |                              |                              |                |                 | 8t                                                  | 9t  | 10t | 8t          | 9t   | 10t  |
|                 | mm                    | mm                          | mm                           | mm                           | Deg            | Deg             | mm                                                  | mm  | mm  | mm          | mm   | mm   |
| 2-Standard Mast | 3000                  | 2850                        | 4310                         | 200                          | 6              | 12              | 708                                                 | 713 | 713 | 3072        | 3092 | 3092 |
|                 | 3500                  | 3100                        | 4810                         | 200                          | 6              | 12              | 708                                                 | 713 | 713 | 3165        | 3185 | 3185 |
|                 | 4000                  | 3350                        | 5310                         | 200                          | 6              | 12              | 708                                                 | 713 | 713 | 3355        | 3375 | 3375 |
|                 | 4500                  | 3650                        | 5810                         | 200                          | 6              | 6               | 708                                                 | 713 | 713 | 3460        | 3480 | 3480 |
|                 | 5000                  | 3900                        | 6310                         | 200                          | 6              | 6               | 708                                                 | 713 | 713 | 3572        | 3592 | 3592 |
|                 | 5500                  | 4200                        | 6810                         | 200                          | 3              | 6               | 708                                                 | 713 | 713 | 3823        | 3843 | 3843 |
|                 | 6000                  | 4450                        | 7310                         | 200                          | 3              | 6               | 708                                                 | 713 | 713 | 3923        | 3943 | 3943 |
| 2-Free Mast     | 6500                  | 4750                        | 7810                         | 200                          | 3              | 6               | 708                                                 | 713 | 713 | 4035        | 4055 | 4055 |
|                 | 3000                  | 2850                        | 4310                         | 1305                         | 6              | 12              | —                                                   | —   | —   | —           | —    | —    |
|                 | 3500                  | 3100                        | 4810                         | 1555                         | 6              | 12              | —                                                   | —   | —   | —           | —    | —    |
| 3-Free Mast     | 4000                  | 3350                        | 5310                         | 1805                         | 6              | 12              | —                                                   | —   | —   | —           | —    | —    |
|                 | 4500                  | 2950                        | 5950                         | 1500                         | 6              | 6               | 787                                                 | 792 | 792 | 3632        | 3652 | 3652 |
|                 | 5000                  | 3117                        | 6450                         | 1667                         | 6              | 6               | 787                                                 | 792 | 792 | 3746        | 3766 | 3766 |
|                 | 5500                  | 3283                        | 6950                         | 1833                         | 3              | 6               | 787                                                 | 792 | 792 | 3880        | 3900 | 3900 |
|                 | 6000                  | 3450                        | 7450                         | 2000                         | 3              | 6               | 787                                                 | 792 | 792 | 4020        | 4040 | 4040 |
|                 | 6500                  | 3617                        | 7950                         | 2167                         | 3              | 6               | 787                                                 | 792 | 792 | 4160        | 4180 | 4180 |
|                 | 7000                  | 3783                        | 8450                         | 2333                         | 3              | 6               | 787                                                 | 792 | 792 | 4300        | 4320 | 4320 |

\*the weight of mast includes the weight of fork carriage and fork